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| Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Defense Information Systems Agency | Date: February 2018 |
|---|----------------------------|

| Appropriation/Budget Activity | R-1 Program Element (Number/Name) | | | | | | | | | | | |
|---|---|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i> | PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | | | | | | | | | | | |
| COST (\$ in Millions) | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total | FY 2020 | FY 2021 | FY 2022 | FY 2023 | Cost To Complete | Total Cost |
| Total Program Element | 153.865 | 12.316 | 15.855 | 17.579 | - | 17.579 | 17.383 | 17.715 | 18.017 | 18.458 | Continuing | Continuing |
| T64: <i>Special Projects</i> | 70.985 | 0.000 | 5.481 | 5.481 | - | 5.481 | 5.558 | 5.564 | 5.562 | 5.673 | Continuing | Continuing |
| T70: <i>Strategic C3 Support</i> | 82.880 | 12.316 | 10.374 | 12.098 | - | 12.098 | 11.825 | 12.151 | 12.455 | 12.785 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

Minimum Essential Emergency Communications Network (MEECN) provides the Nuclear Command, Control, and Communications (NC3) Engineer with plans and procedures, systems analysis, operational assessments, systems engineering, and development of concepts of operation and architectures. The NC3 System provides connectivity from the President and the Secretary of Defense through the National Military Command System to nuclear execution forces integral to fighting a "homeland-to-homeland," as well as theater nuclear war. MEECN includes the Emergency Action Message dissemination systems and those systems used for integrated Tactical Warning/Attack Assessment, presidential decision-making conferencing, force report back, re-targeting, force management, and requests for permission to use nuclear weapons. Efforts assure positive control of nuclear forces and connectivity between the Secretary of Defense, military forces, and an informed decision-making linkage between the President, the Secretary of Defense, and the Combatant Commands. MEECN ensures our national leadership has proper command and control of our forces during times of national emergency, up to and including nuclear war.

| B. Program Change Summary (\$ in Millions) | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 12.206 | 15.855 | 15.883 | - | 15.883 |
| Current President's Budget | 12.316 | 15.855 | 17.579 | - | 17.579 |
| Total Adjustments | 0.110 | 0.000 | 1.696 | - | 1.696 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Other Adjustments | 0.110 | - | 1.696 | - | 1.696 |

Change Summary Explanation

The increase of +\$1.696 in FY 2019 will fund Polo Hat theater and Paul Revere operational assessments of the National Leadership Command Capabilities (NLCC). Additional information is classified and provided under separate cover.

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| Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Information Systems Agency | | | | | | | | | | Date: February 2018 | | |
| Appropriation/Budget Activity 0400 / 7 | | | | | R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | | | | Project (Number/Name) T64 / <i>Special Projects</i> | | | |
| COST (\$ in Millions) | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total | FY 2020 | FY 2021 | FY 2022 | FY 2023 | Cost To Complete | Total Cost |
| T64: <i>Special Projects</i> | 70.985 | 0.000 | 5.481 | 5.481 | - | 5.481 | 5.558 | 5.564 | 5.562 | 5.673 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |
| A. Mission Description and Budget Item Justification The mission is performing classified work. All aspects of this project are classified and require special access. Detailed information on this project is not contained in this document. | | | | | | | | | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | | | | | | | FY 2017 | FY 2018 | FY 2019 | |
| Title: Special Projects | | | | | | | | | 0.000 | 5.481 | 5.481 | |
| Description: Program is classified and exhibit will be provided under a separate cover. | | | | | | | | | | | | |
| FY 2018 Plans: Program is classified and exhibit will be provided under a separate cover. | | | | | | | | | | | | |
| FY 2019 Plans: Program is classified and exhibit will be provided under a separate cover. | | | | | | | | | | | | |
| FY 2018 to FY 2019 Increase/Decrease Statement: Program is classified and exhibit will be provided under a separate cover. | | | | | | | | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | | | | | 0.000 | 5.481 | 5.481 | |
| C. Other Program Funding Summary (\$ in Millions) N/A Remarks | | | | | | | | | | | | |
| D. Acquisition Strategy Program is classified and exhibit will be provided under a separate cover. | | | | | | | | | | | | |
| E. Performance Metrics Program is classified and exhibit will be provided under a separate cover. | | | | | | | | | | | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Defense Information Systems Agency | | | | | | | | | | | | Date: February 2018 | | |
| Appropriation/Budget Activity 0400 / 7 | | | | | R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | | | | | Project (Number/Name) T64 / <i>Special Projects</i> | | | | |

| Support (\$ in Millions) | | | | FY 2017 | | FY 2018 | | FY 2019 Base | | FY 2019 OCO | | FY 2019 Total | | | |
|-----------------------------------|------------------------------|-----------------------------------|----------------|---------|---------------|---------|---------------|-----------------|---------------|----------------|---------------|------------------|---------------------|---------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| System Engineering & Intergration | C/CPFF | Verizon : Arlington, VA | 70.985 | 0.000 | Oct 2016 | 5.481 | Oct 2017 | 5.481 | Oct 2018 | - | | 5.481 | Continuing | Continuing | - |
| Subtotal | | | 70.985 | 0.000 | | 5.481 | | 5.481 | | - | | 5.481 | Continuing | Continuing | N/A |

| | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|----------------|---------|---------|-----------------|----------------|------------------|---------------------|---------------|--------------------------------|
| Project Cost Totals | 70.985 | 0.000 | 5.481 | 5.481 | - | 5.481 | Continuing | Continuing | N/A |

Remarks

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| Exhibit R-4, RDT&E Schedule Profile: PB 2019 Defense Information Systems Agency | | | Date: February 2018 |
| Appropriation/Budget Activity 0400 / 7 | R-1 Program Element (Number/Name) PE 0303131K / Minimum Essential Emergency Communications Network (MEECN) | Project (Number/Name) T64 / Special Projects | |

| | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | |
|------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Classified | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Classified | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2019 Defense Information Systems Agency | | Date: February 2018 |
| Appropriation/Budget Activity 0400 / 7 | R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | Project (Number/Name) T64 / <i>Special Projects</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|-----------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Classified</i> | | | | |
| Classified | 1 | 2017 | 4 | 2023 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Information Systems Agency | | | | | | | | | | Date: February 2018 | | |
|---|----------------|---------|---------|-----------------|--|------------------|---------|---------|--|---------------------|---------------------|---------------|
| Appropriation/Budget Activity 0400 / 7 | | | | | R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | | | | Project (Number/Name) T70 / <i>Strategic C3 Support</i> | | | |
| COST (\$ in Millions) | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total | FY 2020 | FY 2021 | FY 2022 | FY 2023 | Cost To Complete | Total Cost |
| T70: <i>Strategic C3 Support</i> | 82.880 | 12.316 | 10.374 | 12.098 | - | 12.098 | 11.825 | 12.151 | 12.455 | 12.785 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

This project supports the mission of the Nuclear Command, Control, and Communications (NC3) Systems Engineer to the Joint Staff and Executive Leadership. It also provides NC3 expertise to the Department of Defense (DoD) Chief Information Officer (CIO) National Leadership Command Capability (NLCC) Management Office. Systems Analysis supports long range planning and vulnerability assessments to ensure the NC3 System is adequate under all conditions of stress or war and recommends investment strategies to evolve the Nuclear Command and Control System to achieve desired capabilities. Operational Assessments of fielded systems and weapon platforms provide the sole means for verification of NC3 systems' performance in support of plans and procedures, operation orders, training, equipment, and end-to-end system configuration. Assessments provide strategic and theater level C3 interfaces into the NC3 System. Supporting efforts assure positive control of nuclear forces and connectivity between the Secretary of Defense and strategic and theater forces. Systems Engineering provides the Senior Leadership C3 System with technical and management advice, planning and engineering support, and Test & Evaluation. Leading Edge Command, Control, Communications, Computers, and Intelligence technology is assessed for all communication platforms supporting executive travelers and senior leaders to include the interoperability of hardware and operational procedures. These technology elements support the President's and other DoD command centers and aircraft (e.g., Air Force One and the National Airborne Operations Center).

B. Accomplishments/Planned Programs (\$ in Millions)

| | FY 2017 | FY 2018 | FY 2019 |
|---|----------------|----------------|----------------|
| Title: Systems Engineering, Analysis and Architecture | 12.316 | 10.374 | 12.098 |
| FY 2018 Plans: Will continue oversight and configuration control of the NLCC functional baseline. Will continue to identify NLCC capability gaps, and develop engineering courses of action to close those gaps. Will continue to shape plans for future NLCC capabilities, perform end-to-end testing of fielded capabilities, and perform operational assessments of current capabilities to provide quantitative measures of ongoing system performance and operational efficiency. Will continue to develop the NLCC Reference Architecture, its associated NLCC Roadmap, and the technical architecture patterns that will guide future solution architecture development. | | | |
| The decrease of +\$1.942 from FY 2017 to FY 2018 is due to reduced number of technical assessments required, expansion of the production of architectural artifacts required to complete the NLCC Technical Architecture; development of a NLCC Modeling and Simulation (M&S) capability; support engineering and implementation of the NLCC enterprise mobility infrastructure. Part of the overall increase (-\$0.297) is attributed to the Service Requirements Review Board (SSRB) contract reduction. | | | |
| FY 2019 Plans: | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2019 Defense Information Systems Agency | | | Date: February 2018 |
| Appropriation/Budget Activity 0400 / 7 | R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | Project (Number/Name) T70 / <i>Strategic C3 Support</i> | |

B. Accomplishments/Planned Programs (\$ in Millions)

| | FY 2017 | FY 2018 | FY 2019 |
|--|---------|---------|---------|
| Will continue oversight and configuration control of the NLCC functional baseline. Will continue to identify NLCC capability gaps, and develop engineering courses of action to close those gaps. Will continue to shape plans for future NLCC capabilities, perform end-to-end testing of fielded capabilities, and perform operational assessments of current capabilities to provide quantitative measures of ongoing system performance and operational efficiency. Will continue to develop the NLCC Reference Architecture, its associated NLCC Roadmap, and the technical architecture patterns that will guide future solution architecture development. | | | |
| <i>FY 2018 to FY 2019 Increase/Decrease Statement:</i> The increase of +\$1.724 in FY 2019 will fund Polo Hat theater and Paul Revere operational assessments of the National Leadership Command Capabilities (NLCC). Additional information is classified and provided under separate cover. | | | |
| Accomplishments/Planned Programs Subtotals | 12.316 | 10.374 | 12.098 |

C. Other Program Funding Summary (\$ in Millions)

| Line Item | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total | FY 2020 | FY 2021 | FY 2022 | FY 2023 | Cost To Complete | Total Cost |
|-------------------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| • O&M, PE 0303131K: O&M | 20.337 | 26.029 | 24.630 | - | 24.630 | 25.114 | 25.627 | 26.093 | 26.742 | Continuing | Continuing |

Remarks

D. Acquisition Strategy

Full and open competition resulted in contract vehicles with Raytheon, Arlington, VA; Science Applications Int'l Corporation (SAIC), McLean, VA; and Pragmatics, Mclean, VA.

E. Performance Metrics

Performance is measured by compliance with contract deliverables schedules for specifically included products, such as: operational assessment plans, operational assessment reports; recommended revisions to the Joint Staff's Emergency Action Procedures (EAP-CJCS) Volumes VI and VII; updates to NC3 System Description documents and Nuclear C3 Architecture Diagrams. In addition, performance of the NC3 System is directly measured by the operational assessments funded by this program element. These periodic assessments evaluate the connectivity used for the five functions of Nuclear command and control: Situation Monitoring, Planning, Decision Making, Force Execution, and Force Management. Performance of the SLC3S-Airborne fleet is measured by the technical assessment results documented in the assessment reports. Assessment results are used by the Joint Staff and the DoD CIO to direct changes in system engineering and integration, programmatic execution, and training.

Specific performance metrics include the following:

Provide engineering products in all task areas that satisfy DoD/CIO and Joint Staff needs within allocated resources 90% of the time.

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| <p>Conduct assessments of the NC3 system and the SLC3S that provide actionable results and recommendations for the Joint Staff and DoD/CIO to pursue improvements to these capabilities 90% of the time.</p> <p>MEECN achieved all its FY 2017 performance metrics and is on track to achieve the FY 2018 and FY 2019 targets of provisioning the Joint Staff requirements within the allocated resources 90% of the time.</p> | | |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Defense Information Systems Agency | | | | | | | | | | | | Date: February 2018 | | | |
|--|------------------------|------------------------------------|-------------|---------|------------|--|------------|-----------------|------------|--|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity 0400 / 7 | | | | | | R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | | | | Project (Number/Name) T70 / <i>Strategic C3 Support</i> | | | | | |
| Support (\$ in Millions) | | | | FY 2017 | | FY 2018 | | FY 2019 Base | | FY 2019 OCO | | FY 2019 Total | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| Systems Engineering 1 | C/CPAF | SAIC : McLean, VA | 20.060 | 1.639 | Aug 2017 | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Systems Engineering 2 | C/CPAF | Raytheon Company : Arlington, VA | 35.600 | - | | - | | - | | - | | - | Continuing | Continuing | Continuing |
| Systems Engineering 3 | C/CPFF | Pragmatics : McLean, VA | 10.080 | - | | - | | - | | - | | - | Continuing | Continuing | 10.080 |
| Systems Engineering 4 | C/FP | Raytheon Company : Arlington, VA | 9.311 | 9.736 | Feb 2017 | 5.200 | Feb 2018 | 6.050 | Feb 2019 | - | | 6.050 | Continuing | Continuing | Continuing |
| Systems Engineering 5 | C/CPFF | BAH : Falls Church, VA | 4.273 | - | | - | | - | | - | | - | Continuing | Continuing | 4.273 |
| Systems Engineering 6 | C/CPFF | Harris Corporation : Melbourne, FL | 2.500 | - | | - | | - | | - | | - | Continuing | Continuing | 2.500 |
| Systems Engineering 7 | C/CPAF | Carson Engineering : Bethesda, MD | 1.056 | - | | - | | - | | - | | - | Continuing | Continuing | Continuing |
| System Engineering 8 | C/FFP | MITRE Corp : McLean, VA | - | 0.941 | Oct 2016 | 1.332 | Oct 2017 | 1.000 | Oct 2018 | - | | 1.000 | Continuing | Continuing | Continuing |
| System Engineering 9 | C/FFP | JHU APL : Laurel, MD | - | - | | 2.500 | Apr 2018 | 1.000 | Apr 2019 | - | | 1.000 | Continuing | Continuing | - |
| System Engineering 10 | C/FFP | TBD - New Contract : TBD | - | - | | 1.342 | Aug 2018 | - | | - | | - | Continuing | Continuing | - |
| System Engineering | C/CPFF | Jacob FNS : Arlington, Va | - | - | | - | | 4.048 | Oct 2018 | - | | 4.048 | Continuing | Continuing | - |
| Subtotal | | | 82.880 | 12.316 | | 10.374 | | 12.098 | | - | | 12.098 | Continuing | Continuing | N/A |
| | | | Prior Years | FY 2017 | | FY 2018 | | FY 2019 Base | | FY 2019 OCO | | FY 2019 Total | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals | | | 82.880 | 12.316 | | 10.374 | | 12.098 | | - | | 12.098 | Continuing | Continuing | N/A |
| Remarks | | | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2019 Defense Information Systems Agency | | | Date: February 2018 |
| Appropriation/Budget Activity 0400 / 7 | R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | Project (Number/Name) T70 / <i>Strategic C3 Support</i> | |

| | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | |
|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| <i>NLCC Program Tracking Report (formally known as NC3 Program Tracking Report)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NLCC Program Tracking Report | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Systems Analysis Documents</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Systems Analysis Documents | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>NLCC Reference Architecture (formally known as NC3 Reference Architecture)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NLCC Reference Architecture | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Operational Assessments</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operational Assessments | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>NLCC Portfolio Roadmap</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NLCC Portfolio Roadmap | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>NLCC System Engineering and Integration</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NLCC System Engineering and Integration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>NLCC Target Architecture</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NLCC Target Architecture | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2019 Defense Information Systems Agency | | | Date: February 2018 |
| Appropriation/Budget Activity 0400 / 7 | R-1 Program Element (Number/Name) PE 0303131K / <i>Minimum Essential Emergency Communications Network (MEECN)</i> | Project (Number/Name) T70 / <i>Strategic C3 Support</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|---|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| NLCC Program Tracking Report (formally known as NC3 Program Tracking Report) | | | | |
| NLCC Program Tracking Report | 1 | 2017 | 3 | 2023 |
| Systems Analysis Documents | | | | |
| Systems Analysis Documents | 1 | 2017 | 4 | 2023 |
| NLCC Reference Architecture (formally known as NC3 Reference Architecture) | | | | |
| NLCC Reference Architecture | 1 | 2017 | 4 | 2023 |
| Operational Assessments | | | | |
| Operational Assessments | 1 | 2017 | 4 | 2023 |
| NLCC Portfolio Roadmap | | | | |
| NLCC Portfolio Roadmap | 1 | 2017 | 1 | 2023 |
| NLCC System Engineering and Integration | | | | |
| NLCC System Engineering and Integration | 1 | 2017 | 1 | 2023 |
| NLCC Target Architecture | | | | |
| NLCC Target Architecture | 4 | 2017 | 3 | 2023 |